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October 2, 2009

Ms. Theresa Holz On-Scene Coordinator United States Environmental Protection Agency, Region V 77 West Jackson Boulevard, Mail Code: SE-5J Chicago. Illinois 60604-3507

Re: Matthiessen and Hegeler (M&H) Zinc Site Removal Action

LaSalle, LaSalle County, Illinois

Technical Direction Document No.: S05-0001-0908-009

Document Control No.: 729-2A-AESO

Identification No.: B568

V/ork Order No.: 20405.012.001.0729.00

Dear Ms Holz:

The United States Environmental Protection Agency (U.S. EPA) tasked the Weston Solutions, Inc. (WESTON®), Superfund Technical Assessment and Response Team (START) to provide oversight of removal activities at the Matthiessen and Hegeler (M&H) Zinc Site in LaSalle, LaSalle County, Illinois (the Site). Under Technical Direction Document (TDD) No. S05-0001-0908-009, U.S. EPA tasked WESTON START to

- Perform general project oversight;
- Conduct air sampling activities;
- Collect written and photographic documentation; and
- Track disposition of the waste generated during the removal activities.

On August 26, 2009, U.S. EPA, WESTON START, and the Emergency and Rapid Response Services (ERRS) contractor, Environmental Restoration, LLC (ER), conducted a site walk-through. Removal activities were conducted from September 8 through 12, 2009. Table 1 of Attachment A lists the agencies and organizations involved in the response.

This letter report discusses the site description, site background, removal actions, disposition of waste, the effectiveness of removal activities, difficulties encountered, and conclusions and recommendations. In addition, this letter report has five attachments. Attachment A provides the tables for this report; Attachment B provides the figures; Attachment C provides analytical results for sampling conducted on August 26, 2009; Attachment D provides a photographic log

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M&H Zinc Site Removal Action October 2, 2009

of the removal activities and Site conditions; and Attachment E provides analytical results for perimeter and personal air sampling conducted during the removal activities.

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SITE DESCRIPTION

The Site is located at 1256 Sterling Street in LaSalle, LaSalle County, Illinois (Figure 1 in Attachment B). The Site occupies approximately 160 acres that contain inactive primary zinc smelting operations and associated abandoned buildings, a rolling mill, and the active Carus Chemical Company property (Figure 2 in Attachment B). As discussed in more detail under "Site Background," the Site has been divided into two operable units (OU), OU1 and OU2.

The Site is bounded by the Little Vermilion River to the north and east and by private residences to the south and west. Tracts of farmland and a limestone quarry are located across the Little Vermilion River north and east of the Site, respectively. The City of LaSalle obtains its drinking water from a cluster of four municipal wells, the nearest of which is approximately ¾ mile south of the Site. An abandoned sewer line that runs across the Site transports surface water runoff directly into the Little Vermilion River. A wetland is located approximately ½ mile upstream (north) from the Site, and the Illinois River is located approximately 1 mile downstream (south) from the Site.

SITE BACKGROUND

Site operations began in 1858, when raw materials such as zinc ore and various grades of coal were transported to the Site for zinc smelting. A rolling mill was constructed at the Site in 1866 to produce zinc sheets, a process that included a furnace that used producer gas as fuel. Any sulfur dioxide generated was recovered and converted into sulfuric acid and stored in on-site tanks. The Site also contained an ammonium sulfate fertilizer plant that operated for a few years during the early 1950s. Coal mining occurred at the Site until 1937, and two mining shafts (one vertical and one horizontal) currently remain on site. Zinc smelting ceased in 1961, and sulfuric acid manufacturing halted in 1968. From 1968 to 1978, when bankruptcy was declared, only rolling mill operations were conducted at the Site. In 1980, Fred and Cynthia Carus purchased a 12-acre tract containing the rolling mill and operated the LaSalle Rolling Mills.

The LaSalle Rolling Mills worked under contract with the United States Mint to generate metal blanks for pennies and operated until 2000, when bankruptcy was declared. In 2003, U.S. EPA conducted an emergency removal action at the LaSalle Rolling Mills to address cyanide contamination, old plating line waste, and various other chemicals and storage tanks that remained after the rolling mill closure. This removal action is complete. The Carus Chemical Company property is located south of the rolling mills and has been operating since 1915 mainly producing potassium permanganate.

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The Site has been divided into two OUs, OU1 and OU2. As negotiated by a settlement order signed in September 2006, OU1 includes the Carus Chemical Company property, the Little Vermilien River next to the entire Site, and a large slag and sinter waste pile approximately 6 acres in area and 40 to 100 feet deep. OU2 occupies approximately 140 acres and contains the production area of the former zinc smelting and rolling mill processes and the property immediately surrounding this area. Specifically, OU2 includes the former rolling mill building, approximately 150 associated former buildings and structures, a shallow slag and sinter pile that heterogeneously covers the former production area of the Site, several abandoned and closed mine shafts, an undeveloped woodland, and surrounding residential areas.

In 1991, the Site was listed in the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database under CERCLIS Identification (ID) No. IL0000064782 as the Matthiessen and Hegeler Zinc Company. In November 1991, the Illinois Environmental Protection Agency (IEPA) conducted a screening site inspection at the Site under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). In December 1993, IEPA conducted CERCLA integrated assessment sampling at the Site. During these two investigations, IEPA collected several samples from two primary sources of contamination: the 6-acre waste pile located on the Carus Chemical Company property at OUI and the shallow waste pile composed of sinter and slag heterogeneously deposited throughout the former smelter property at OU2. Five of the samples were collected from the sinter slag cover on OU2. IEPA also observed a release to surface water during the 1993 investigation that was subsequently substantiated by chemical analyses of sediment samples collected from the Little Vermilion River.

The Site was listed on the National Priorities List (NPL) on September 29, 2003. The two primary on-site sources were used to score the site for the NPL. The contaminants discovered at the second source appear to have resulted from the former zinc smelter activities and ancillary operations described above. Runoff from this shallow sinter and slag pile flows into the Little Vermilion River through natural drainage pathways and manmade conduits. In the central portion of OU2 west of an abandoned railroad, a conduit runs from an abandoned pump house to the Little Vermilion River and drainage enters an old abandoned and collapsed storm sewer line that runs east to west across the entire width of OU2.

In 2007, the U.S. EPA conducted a Phase 1 remedial investigation (RI) at the Site. Preliminary RI results indicate ubiquitous metals contamination across the entire Site consisting primarily of arsenic, sead, cadmium, copper, mercury, and zinc in soils, debris piles, building materials, surface water, and groundwater. In addition, debris piles and surface and subsurface soils near Building 100, the rolling mill, and the furnaces contain high concentrations of polychlorinated biphenyls (PCB). Soils and groundwater in the vicinity of the rolling mill at OU2 contain trichloroethene (TCE) contamination. OU2 contains ubiquitous polycyclic aromatic hydrocarbons (PAH). Asbestos has been detected at concentrations as high as 6.5 percent.

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In August 2008, the U.S. EPA Remedial Branch requested assistance from the U.S. EPA Emergency Response Branch (ERB) in assessing abandoned chemicals in a dilapidated laboratory at OU1 and suspected asbestos-containing material (ACM). On August 15, 2008, representatives from the U.S. EPA ERB and Remedial Branch met at the Site to observe the abandoned chemicals and potential ACM. The laboratory containing the abandoned chemicals was in poor condition and posed a threat of release if the building were to collapse. As a result, the U.S. EPA ERB conducted a removal site assessment to address the abandoned chemicals and potential ACM.

During the removal assessment, nine potential ACM samples were collected for total asbestos analysis, two solid waste samples were collected for total metals and toxicity characteristic leaching procedure (TCLP) metals analysis, one solid waste sample was collected for pH analysis, one liquid waste sample was collected for flashpoint analysis, and one oil sample was collected from a manhole containing petroleum product for volatile organic compound (VOC), total petroleum hydrocarbons (TPH), and PCB analysis. The solid and liquid waste samples contained arsenic, cadmium, lead, and zinc at concentrations exceeding their respective U.S. EPA Regional Screening Levels (RSL) and U.S. EPA Site Screening Levels (SSL). Arsenic concentrations ranged from 0.39 to 96 milligrams per kilogram (mg/kg); cadmium concentrations ranged from 70 to 2,000 mg/kg; lead concentrations ranged from 400 to 16,000 mg/kg; and zinc concentrations ranged from 23,000 to 500,000 mg/kg. In addition, the TCLP metals results indicated lead concentrations indicative of characteristic hazardous waste as defined in Title 40 of the Code of Federal Regulations (CFR), Part 261. The pH analytical results indicated neutral to alkaline pH and ranged from 6.3 to 9.3 standard units (SU). Asbestos results indicated asbestos at concentrations ranging from 10 to 20 percent. concentration of asbestos was detected in a sample of white material collected from north of Building 1943. VOC analytical results did not indicate the presence of VOCs. TPH analytical results indicated that the oil consisted of carbon heavy oils. PCB analytical results indicated Aroclor 1260 at a concentration of 4.2 mg/kg.

On May 27, 2009, U.S. EPA signed an Action Memorandum to conduct a time-critical removal action at the Site.

REMOVAL ACTIONS

On August 26, 2009, U.S. EPA, WESTON START, and ER conducted a site walk-through. During the site walk-through, WESTON START collected 15 samples of suspected ACM in and around the rolling mill building and laboratory building. Based on results for these samples, it was determined that the following contained asbestos and would require abatement in addition to the ACM identified during the August 2008 site assessment: pipe wrap outside of the rolling mill



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building, floor tile in the laboratory building, and an insulation sheet near an oven in the laboratory building. Attachment C provides the asbestos analytical results for these samples.

On September 8, 2009, U.S. EPA, WESTON START, and ER mobilized to the Site and began removal action preparation activities. Removal action activities were conducted from September 9 through 12, 2009, and consisted of (1) the removal of ACM north of Building 1943, in the laboratory building, and outside of the rolling mill building and (2) demolition of the laboratory building (Figure 3 in Attachment B). Roll-off boxes that remained on site after September 12, 2009, were removed on September 16 and 18, 2009. Also, a new chain-link fence was installed around the old footprint of the demolished laboratory building. The petroleum product in the manhole was not addressed during this removal action. Attachment D provides a photographic log of removal action activities and Site conditions.

Removal action activities conducted on each day are summarized below, followed by a more detailed discussion of removal activity and air sampling details.

September 9, 2009

- ER cleared and grubbed vegetation and debris from the work areas.
- ER constructed access roads to the rolling mill building and to the open field north of Building 1943. Approximately 101.12 tons of gravel was brought on site to construct the access roads.
- ER abated approximately 3 linear feet of asbestos pipe wrap outside of the rolling mill building. ER collected one personal asbestos air sample during the abatement activities.
- ER collected a bulk sample for asbestos analysis of white granular material in a pile in the chemical storage room of the rolling mill building.
- WESTON START conducted asbestos air sampling at four locations (Figure 4a in Attachment B).
- The U.S. EPA Remedial Project Manager (RPM) and representatives from IEPA conducted a site visit.

September 10, 2009

- ER conducted ACM removal activities in the open field north of Building 1943. ER scraped the top 3 inches of soil/debris in a 100-square-foot area.
- ER removed 500 square feet of ACM floor tiles from the laboratory building.
- ER abated approximately 10 linear feet of asbestos pipe wrap outside of the rolling mill building.

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- WESTON START conducted asbestos air sampling at four locations (Figure 4b in Attachment B). Air sampling station 3 was moved from the field location to the laboratory building during the day.
- ER collected three personal asbestos air samples during the abatement, ACM floor tile removal, and ACM removal activities north of Building 1943.

September 11, 2009

- ER began laboratory building demolition activities.
- ER abated approximately 10 linear feet of asbestos pipe wrap outside of the rolling mill building.
- WESTON START conducted asbestos air sampling at four locations (Figure 4c in Attachment B). In addition, total particulates and metals air sampling was conducted at two locations.
- ER collected three personal asbestos air samples during the abatement and laboratory building demolition activities.

September 12, 2009

- ER completed laboratory building demolition activities.
- ER abated approximately 25 linear feet of asbestos pipe wrap outside of the rolling mill building.
- WESTON START conducted asbestos air sampling at four locations. In addition, total particulates and metals air sampling was conducted at two locations (Figure 4d in Attachment B).
- ER collected one personal asbestos air sample during the abatement activities.

Removal Activity Details

Removal activities consisted of ACM removal, building demolition, segregation of building debris, and disposal. All work was performed in Level C personal protective equipment (PPE) except for work performed by heavy equipment operators, who were in enclosed cabs.

The ACM removal outside of the rolling mill building consisted of removing entire pipe sections using cutting tools. The ACM removal inside the laboratory building consisted of removing floor tiles using shovels and scrapers. The ACM and piping sections were placed in plastic bags and secured with duct tape or placed in 55-gallon plastic drums. Approximately 48 linear feet of friable asbestos pipe wrap was abated and disposed of with the construction debris containing friable asbestos. The ACM removal north of Building 1943 consisted of scraping approximately I:\Wo\START3\729\41068LRPT.DOC



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the top 3 inches of soil throughout the field, loading the soil into trucks, and transporting the soil off site for disposal.

Building demolition and debris segregation were accomplished using heavy equipment. Operators segregated the construction debris from scrap metal. ER used water hoses to wet the construction debris in order to minimize dust levels. Piles of construction debris were loaded into roll-off boxes and trucks and sent off site for disposal. Scrap metal was left on site. More details regarding waste disposal are presented below under "Disposition of Wastes."

Air Sampling Details

WESTON START conducted perimeter air sampling at four designated locations around the work areas (Figures 4a, 4b, 4c, and 4d in Attachment B). Air samplers ran for 6 to 9 hours on each of the 4 days. Daily perimeter air sampling for asbestos was conducted during the removal of asbestos pipe wrap/insulation and debris north of Building 1943. Daily perimeter air sampling for particulates, metals, and asbestos was conducted during demolition of the laboratory building.

Asbestos sampling and analysis were performed in accordance with National Institute for Occupational Safety and Health (NIOSH) Method 7400. Asbestos air sampling was conducted using Sensidyne Aircon-2 high-volume air samplers and a cellulose ester membrane sampling medium. Total particulates sampling and analysis were performed in accordance with NIOSH Method 0500. Metals (arsenic, cadmium, lead, and zinc) sampling and analysis were performed in accordance with NIOSH Method 7300. Air sampling was conducted using Sensidyne Aircon-2 high-volume air samplers and a 0.5-micron (µm), pre-weighted, polyvinyl chloride (PVC) filter.

Air sampling results for metals, total particulates, and asbestos were compared to either the Occupational Safety and Health Administration (OSHA) 8-hour time weighted averages (TWA), OSHA Pennissible Exposure Limits (PEL), or NIOSH Recommended Exposure Levels (REL), whichever was most restrictive. The table below specifies the exposure limits to which the analytical results were compared.



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Contaminant of Concern	Exposure Limit	Source
Arsenic	0.002 mg/m^3	NIOSH REL
Cadmium	0.005 mg/m^3	OSHA PEL
Lead	0.05 mg/m^3	OSHA PEL
Zinc	5 mg/m ³	NIOSH REL ^a
Total Particulates (respirable fraction)	5 mg/m^3	OSHA PEL
Asbestos	0.1 f/cc	OSHA PEL

Notes:

mg/m³ = Milligram per cubic meter

 $f/cc = Asbestos fiber (less than 5 \mu m long) per cubic centimeter$

As stated in the NIOSH Pocket Guide, the exposure limit listed for zinc oxide (zinc is not listed) is for total particulates because zinc particulates are not regulated by OSHA.

All daily perimeter air sampling results for metals, total particulates, and asbestos were either below laboratory detection limits or less than the exposure limits listed above. All ER personal air sampling results for asbestos also were either below laboratory detection limits or less than the exposure limits listed above except for the following sample:

• ER-Personal-Maria collected on September 11, 2009

Attachment E provides the analytical reports for all perimeter and personnel air sampling.

DISPOSITION OF WASTES

Three disposal groups were identified for the Site. Table 2 of Attachment A summarizes the shipping dates, quantities shipped, and disposal facility. The disposal of removal action-related waste streams is summarized below.

- Construction Debris: Republic Services, Inc (Republic), transported 209.04 tons of construction debris resulting from laboratory building demolition to the Land Comp Landfill in Ottawa, Illinois.
- Construction Debris with Friable Asbestos: Republic transported 8.86 tons of construction debris with friable asbestos resulting from laboratory building demolition to the Land Comp Landfill in Ottawa, Illinois.
- Soil with Friable Asbestos: Republic transported 85.91 tons of soil with friable asbestos resulting from the field north of Building 1943 to the Land Comp Landfill in Ottawa, Illinois.



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EFFECTIVENESS OF REMOVAL ACTIVITIES

Actions Taken by State and Local Forces: IEPA provided assistance to the U.S. EPA during site assessment activities and provided Site background information. IEPA was kept informed of the removal activities.

Actions Taken by Federal Agencies and Special Teams: The U.S. EPA was responsible for the removal activities conducted at the Site and was supported by its contractors, WESTON START and ER. WESTON START provided technical support to U.S. EPA during the removal activities. This technical support included

- General and health and safety oversight;
- Perimeter air sampling;
- Written and photographic documentation of all site activities;
- Waste disposition tracking;
- Subcontracting of laboratory services for the analysis of air samples; and
- Cversight of the development and review of final deliverable documents.

ER performed the removal activities at the Site, which included

- Mobilization of Site support items (field trailer and generator);
- Debris and trash removal;
- Laboratory building demolition;
- Asbestos abatement;
- Waste consolidation:
- Transportation and disposal coordination for the wastes; and
- ERRS-related cost tracking.

DIFFICULTIES ENCOUNTERED

No difficulties were encountered during the removal activities described in this report.

CONCLUSIONS AND RECOMMENDATIONS

Site removal activities were conducted from September 9 through 12, 2009. The removal activities consisted of (1) the removal of ACM on the ground north of Building 1943, in the laboratory building, and on pipes outside of the rolling mill building and (2) demolition of the

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laboratory building. Approximately 48 linear feet of asbestos pipe wrap was abated. A total of 209.04 tons of construction debris, 8.86 tons of construction debris with friable asbestos, and 85.91 tons of soil with friable asbestos were removed and disposed of off site. Based on the removal activities performed, the laboratory building and asbestos abated during the removal action at the Site no longer pose an imminent or substantial threat to human health, human welfare, or the environment.

This letter report serves as the final TDD deliverable for the M&H Zinc Site Removal Action. All tasks pertaining to this TDD have been completed. If you have any questions or comments regarding this report, please contact me at (312) 424-3300.

Very truly yours, Weston Solutions, Inc.

Trenna J. Seilheimer

WESTON START Project Geoscientist

Lisa Graczyk

WESTON START Project Manager

Attachments:

A - Tables

B - Figures

C - Analytical Results for Sampling on August 26, 2009

D - Photographic Log

E - Analytical Results for Perimeter and Personal Air Sampling

cc: WESTON START DCN File

ATTACHMENT A TABLES

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Table 1

Organization of the Response Matthiessen and Hegeler Zinc Site LaSalle, LaSalle County, Illinois

Agency or Organization	Contact	Description of Participation
U.S. EPA Region V	Theresa Holz	Federal OSC responsible for overall project oversight and
Division of Superfund	1	success
Emergency Response Branch		
77 West Jackson Boulevard		
Chicago, IL 60604		
(312) 886-6845		
Weston Solutions, Inc.	Lisa Graczyk	WESTON START project manager responsible for
20 North Wacker Drive, Suite 1210		removal oversight support, documentation, air
Chicago, IL 60606		monitoring, sampling, and WESTON START-related
(312) 424-3300	-	cost-tracking
Environmental Restoration, LLC	Mitchell Hunt	Response manager responsible for direction of daily
1666 Fabick Drive	†	ERRS activity; provides personnel and equipment
St. Louis, MO 63026		necessary for removal and coordinates transportation and
(636) 680-2441		disposal of waste streams; also tracks ERRS-related costs
U.S. EPA – Region V	Demaree Collier	RPM that requested assistance from U.S. EPA
Division of Superfund		Emergency Response Branch
Remedial Branch		
77 West Jackson Boulevard		
Chicago, IL 60604		
(312) 886-6845		
Illinois Environmental Protection Agency	Dennis Hancock	IEPA project managers who participated in initial Site
12 Gunia Drive, Suite 2	Tom Williams	assessment before initiation of U.S. EPA response
LaSalle, IL 61301		
(815) 223-9874	1	•
(815) 2223-1714	<u> </u>	

Notes:

ERRS - Emergency and Rapid Response Services

IEPA - Illinois Environmental Protection Agency

OSC - On-Scene Coordinator

RPM - Remedial Project Manager

START - Superfund Technical Assessment and Response Team

U.S. EPA - United States Environmental Protection Agency

WESTON - Weston Solutions, Inc.

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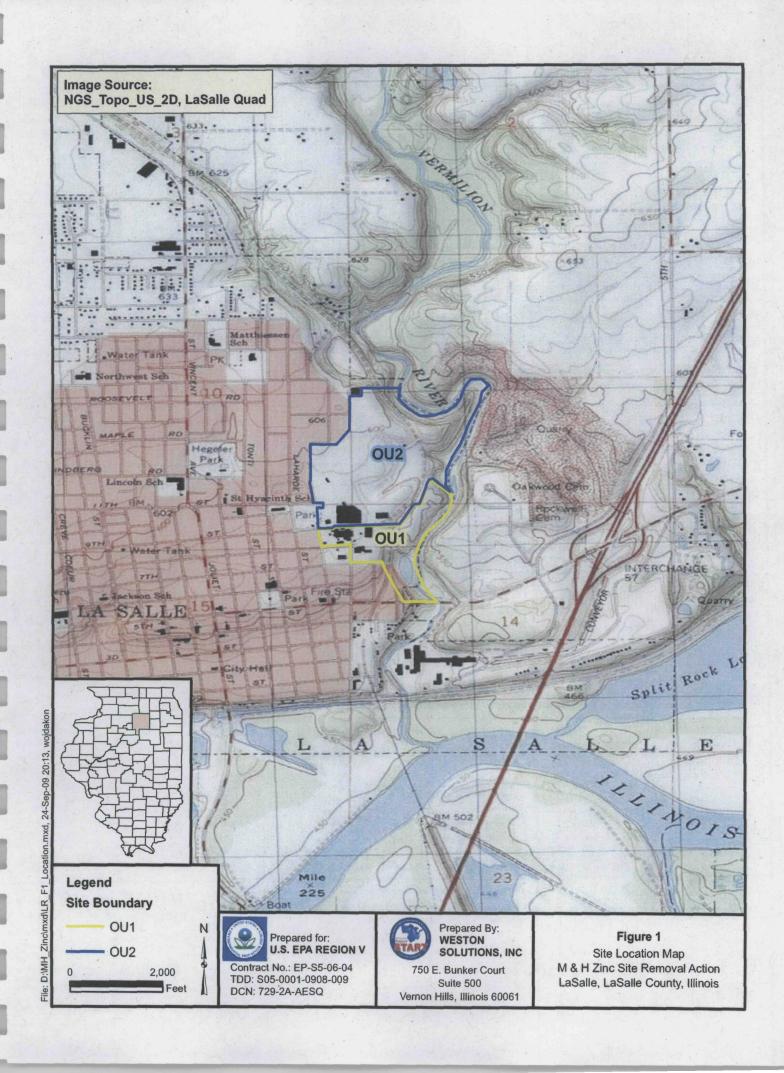
Table 2
Waste Disposal Summary
Matthiessen and Hegeler Zinc Site
LaSalle, LaSalle County, Illinois

Waste Category	Quantity	Date	Manifest	Transporter	Disposal	D: 1F '1': I
waste Category	(ton)	Shipped	No.	Name/Number	Method	Disposal Facility, Location
Soil with friable	14.34	9/10/2009	1	Republic Services, Inc.	Landfill	Land Comp Landfill, Ottawa, IL
asbestos - Non-	14.57	9/10/2009	2	Republic Services, Inc.	Landfill	Land Comp Landfill, Ottawa, IL
Hazardous	21.29	9/10/2009	3	Republic Services, Inc.	Landfill	Land Comp Landfill, Ottawa, IL
	16.55	9/10/2009	4	Republic Services, Inc.	Landfill	Land Comp Landfill, Ottawa, IL
·	19.16	9/10/2009	5	Republic Services, Inc.	Landfill	Land Comp Landfill, Ottawa, IL
Construction Debris -	14.87	9/11/2009		Republic Services, Inc.	Landfill	Land Comp Landfill, Ottawa, IL
Non-Hazardous	16.27	9/11/2009		Republic Services, Inc.	Landfill	Land Comp Landfill, Ottawa, IL
	13.76	9/11/2009		Republic Services, Inc.	Landfill	Land Comp Landfill, Ottawa, IL
	21.33	9/11/2009		Republic Services, Inc.	Landfill	Land Comp Landfill, Ottawa, IL
•	17.11	9/11/2009		Republic Services, Inc.	Landfill	Land Comp Landfill, Ottawa, IL
	13.71	9/12/2009		Republic Services, Inc.	Landfill	Land Comp Landfill, Ottawa, IL
	15.43	9/12/2009		Republic Services, Inc.	Landfill	Land Comp Landfill, Ottawa, IL
	9.48	9/12/2009		Republic Services, Inc.	Landfill	Land Comp Landfill, Ottawa, IL
	17.75	9/12/2009		Republic Services, Inc.	Landfill	Land Comp Landfill, Ottawa, IL
	9.77	9/12/2009		Republic Services, Inc.	Landfill	Land Comp Landfill, Ottawa, IL
	13.68	9/12/2009		Republic Services, Inc.	Landfill	Land Comp Landfill, Ottawa, IL
	18.69	9/12/2009		Republic Services, Inc.	Landfill	Land Comp Landfill, Ottawa, IL
	13.2	9/16/2009		Republic Services, Inc.	Landfill	Land Comp Landfill, Ottawa, IL
	13.99	9/18/2009		Republic Services, Inc.	Landfill	Land Comp Landfill, Ottawa, IL
Construction Debris	8.86	9/18/2009		Republic Services, Inc.	Landfill	Land Comp Landfill, Ottawa, IL
with friable asbestos -						
Non-Hazardous						
Total:	85.91	Soil with Fri	able Asbest	os - Non-Hazardous		
Total:	209.04	Construction	Debris - N	on-Hazardous		
Total:	8.86	Construction	Debris wit	h friable asbestos - Non-	Hazardous	
<u> </u>						

Note:

[&]quot;--" = Not applicable

ATTACHMENT B FIGURES









Zinchwall D EAs Air Loss 0000 mod 24 San 00 20



Contract No.: EP-S5-06-04

TDD: S05-0001-0908-009

DCN: 729-2A-AESQ

20 N. Wacker Drive

Suite 1210

Chicago, Illinois 60606

M & H Zinc Site Removal Action

LaSalle, LaSalle County, Ilinois

Sampling Locations

All locations = asbestos analysis





ATTACHMENT C ANALYTICAL RESULTS FOR SAMPLING ON AUGUST 26, 2009

224: West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com



NVLAP Lab Code 101202-0

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA-600/M4-82-020

Weston Solutions, Inc.
20 N Wacker Drive Suite 1210
Chicago, IL 606062901
Phone: (312) 424-3300

Fax: (312) 424-3330

Reference:

PO#0068086

Date Received: 08/27/2009

Location:

M & H Zinc LaSalle, IL

Date Analyzed: 08/27/2009

Batch No.:

285556

Date Reported: 08/27/2009

Customer No.:

1324

Turn Around Time: 24 Hour

Laboratery	Customer Sample	Asbestos Components	Non-Asbestos Components
Sample	Number	(%)	(%)
285556001	MH-ASB1-082609	Amosite 5-10%	Binder 90-95%
285556002	MH-ASB2-082609	ND	Binder 99-100%
285556003	MH-ASB3-082609	ND	Binder 90-95% Other 5-10%
285556004	MH-ASB4-082609	ND	Binder 90-95% Other 5-10%
285556005	MH-ASB5-082609	ND	Binder 99-100%
285556006	MH-ASB6-082609	ND	Cellulose 95-99% Binder 1-5%
28555600"	MH-ASB7-082609	ND	Cellulose 95-99% Binder 1-5%
285556008	MH-ASB8-082609	ND	Cellulose 95-99% Binder 1-5%
285556009	MH-ASB9-082609	ND	Binder 90-95% Other 5-10%
285556010	MH-ASB10-082609	ND	Binder 90-95% Other 5-10%
28555601	MH-ASB11-082609	ND	Binder 90-95% Other 5-10%
285556012	MH-ASB12-082609	Chrysotile 5-10%	Binder 90-95%
ND = Achestoe Not Detac	eted (Not Present) NA = Not Analys	-d NS = Not Submitted	

ND = Ashestos Net Detected (Not Present)

NA - Not Analyzed

NS - Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

Analyzed by Name : <

Henry Robateau / Microscopist

Date: 08/27/2009

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com



NVI AP Lah Code 101202-0

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA-600/M4-82-020

Weston Solutions, Inc.
20 N Wacker Drive Suite 1210
Chicago, IL 606062901

Phone: (312) 424-3300 Fax: (312) 424-3330

Reference:

PO#0068086

Date Received: 08/27/2009

Location:

M & H Zinc LaSalle, IL

Date Analyzed: 08/27/2009

Batch No.:

285556

Date Reported: 08/27/2009

Customer No.:

1324

Turn Around Time: 24 Hour

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
285556013	MH-ASB12M-082609	Chrysotile 1-5%	Binder 95-99%
285556014	MH-ASB13-082609	Chrysotile 5-10%	Binder 90-95%
285556015	MH-ASB13M-082609	Chrysotile 1-5%	Binder 95-99%
285556016	MH-ASB14-082609	Chrysotile 5-10%	Binder 90-95%
285556017	MH-ASB14M-082609	Chrysotile 1-5%	Binder 95-99%
285556018	MH-ASB15-082609	Chrysotile 10-15%	Binder 85-90%

ND = Asbestos Not Detected (Not Present)

NA = Not Analyzed

NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

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The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in entiry, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

Analyzed by Name:

Henry Robateau / Microscopist

Date: 08/27/2009

STAT Analysis Corporation
22 42 W. Harrison, State 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386

g-mail address: ST (Tinfora ST 1 I Analysis com AIHA, NVLAP and NELAP accordited

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STAT ANALYSIS CORPORATION

PLM Analysis Logbook Henry

Logbook 135-0066

Stat Batch	Date	Stereo	asbestos	morpho	logy of n	naterial		Polariz	ed micro	scopy of	fibrous ma	iterial		Analytic	al Results
&	l	Microscope	optical	No. of	Color	Shape	Shape	Ext.		ngence	Ref.	Color &	Sign of	% type of	% non-
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age 4 of 7

Page 162 of 200

December 1

STAT ANALYSIS CORPORATION

PLM Analysis Logbook Henry

Logbook 135-0066

Stat Batch	Date	Stereo	asbes to s	morpho	logy of m	naterial		Polariz	ed micro	scopy of	fibrous ma	terial		Analylic	ai Resuits
<u>લ</u>		Microscope	optical	No. of	Color	Shape	Shape	Ext.	Birefrin	gence	Ref.	Color &	Sign of	% type of	% non-
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Page 163 of 200

Reviewed by/ Date:

STAT ANALYSIS CORPORATION

PLM Analysis Logbook Henry

Logbook 135-0066

Stat Batch	Date	Stereo	asbestos	morpho	logy of n	naterial		Polariz	ed micro	scopy of	fibrous ma	terial		Analytic	cal Results
&	1	Microscope	optical	No. of	Color	Shape	Shape	Ext.	Birefri	ngence	Ref.	Color &	Sign of	% type of	% non-
Sample #		% asb	properties	layers				angle	Qual.	Quan.	indices	Pleochromism	elongation	asbestos	asbestos
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e 6 of 7

Reviewed by/ Date:_____

POLARIZED LIGHT MICROSCOPE: DAILY CHECKLIST

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Ref. Sample	6/15/20mc				·				

Page 7 of 7

10 of 57

Reviewed by/	Date	• · · · · · · · · · · · · · · · · · · ·
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ATTACHMENT D PHOTOGRAPHIC LOG



Photograph No.: 1 Date: 9/9/09

Direction: Southwest Photographer: Trenna Seilheimer

Subject: Clearing and grubbing of vegetation around laboratory building



Site: M&H Zinc Site Removal Action, La Salle, IL

Photograph No.: 2 Date: 9/9/09

Direction: North Photographer: Trenna Seilheimer

Subject: Clearing and grubbing of vegetation for access road



Photograph No.: 3 Date: 9/9/09

Direction: Northwest Photographer: Trenna Seilheimer

Subject: Rolling mill building area requiring asbestos pipe wrap/insulation abatement

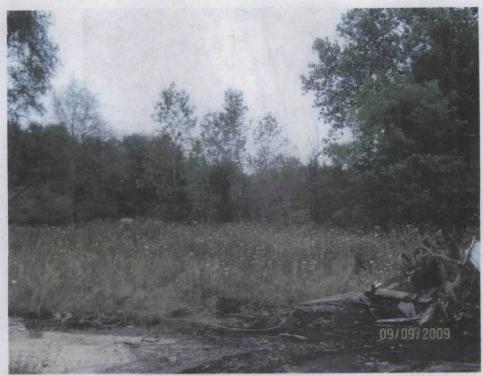


Site: M&H Zinc Site Removal Action, La Salle, IL

Photograph No.: 4 Date: 9/9/09

Direction: North Photographer: Trenna Seilheimer

Subject: Clearing and grubbing of vegetation for access road



Photograph No.: 5
Direction: East

Subject: Field north of Building 1943

Date: 9/9/09

Photographer: Trenna Seilheimer



Site: M&H Zinc Site Removal Action, La Salle, IL

Photograph No.: 6
Direction: South

Subject: Asbestos pipe wrap/insulation abatement area

Date: 9/9/09

Photographer: Trenna Seilheimer



Photograph No.: 7

Direction: South

Subject: Asbestos pipe wrap/insulation abatement area

Date: 9/9/09

Photographer: Trenna Seilheimer



Site: M&H Zinc Site Removal Action, La Salle, IL

Photograph No.: 8 Direction: West

Subject: Clearing and grubbing of vegetation

Date: 9/9/09

Photographer: Trenna Seilheimer



Photograph No.: 9

Direction: North **Subject:** Asbestos pipe wrap/insulation abatement area

Date: 9/9/09

Photographer: Trenna Seilheimer



Site: M&H Zinc Site Removal Action, La Salle, IL

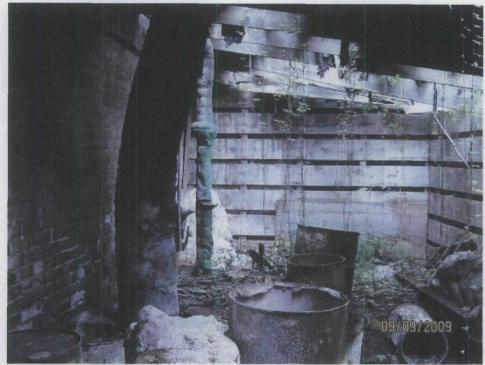
Photograph No.: 10

Direction: North

Subject: Asbestos pipe wrap/insulation abatement area

Date: 9/9/09

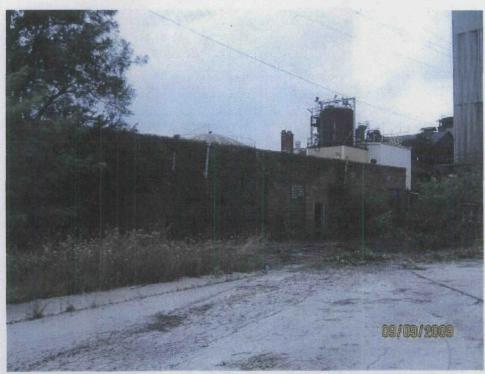
Photographer: Trenna Seilheimer



Photograph No.: 11 Date: 9/9/09

Direction: North Photographer: Trenna Seilheimer

Subject: Asbestos pipe wrap/insulation abatement area



Site: M&H Zinc Site Removal Action, La Salle, IL

Photograph No.: 12 Date: 9/9/09

Direction: Southwest Photographer: Trenna Seilheimer

Subject: Laboratory building cleared of surrounding vegetation



Photograph No.: 13

Direction: East Photographer: Trenna Seilheimer

Subject: Removal of asbestos debris from field north of Building 1943



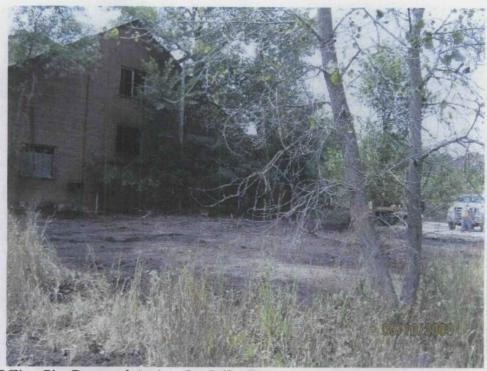
Site: M&H Zinc Site Removal Action, La Salle, IL

Photograph No.: 14 Direction: Northeast

Subject: Scraped field north of Building 1943

Date: 9/10/09

Date: 9/10/09



Photograph No.: 15 Direction: Southwest

Subject: Scraped field north of Building 1943

Date: 9/10/09

Date: 9/10/09

Photographer: Trenna Seilheimer



Site: M&H Zinc Site Removal Action, La Salle, IL

Photograph No.: 16

Direction: Southeast Photographer: Trenna Seilheimer

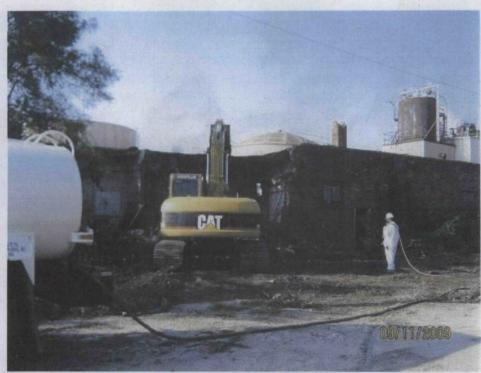
Subject: Asbestos-containing floor tile removal in laboratory building



Photograph No.: 17 Date: 9/10/09

Direction: Southwest Photographer: Trenna Seilheimer

Subject: Asbestos-containing floor tile removal in laboratory building



Site: M&H Zinc Site Removal Action, La Salle, IL

Photograph No.: 18 Direction: Southwest

Subject: Dismantlement of laboratory building

Date: 9/11/09



Photograph No.: 19

Direction: South **Subject:** Dismantlement of laboratory building dismantling

Date: 9/11/09

Photographer: Trenna Seilheimer



Site: M&H Zinc Site Removal Action, La Salle, IL

Photograph No.: 20 Direction: South

Subject: Dismantlement of laboratory building

Date: 9/11/09



Photograph No.: 21 Direction: South

Subject: Dismantlement of laboratory building

Date: 9/11/09

Photographer: Trenna Seilheimer



Site: M&H Zinc Site Removal Action, La Salle, IL

Photograph No.: 22 Direction: Southwest

Subject: Dismantlement of laboratory building

Date: 9/11/09



Photograph No.: 23 Direction: Southwest

Subject: Dismantlement of laboratory building

Date: 9/11/09

Photographer: Trenna Seilheimer



Site: M&H Zinc Site Removal Action, La Salle, IL

Photograph No.: 24 Direction: South

Subject: Dismantlement of laboratory building

Date: 9/11/09



Photograph No.: 25 Direction: Northwest

Subject: Asbestos pipe wrap/insulation abatement area

Date: 9/11/09

Date: 9/11/09

Photographer: Trenna Seilheimer



Site: M&H Zinc Site Removal Action, La Salle, IL

Photograph No.: 26

Direction: Northwest Photographer: Trenna Seilheimer

Subject: Asbestos pipe warp/insulation abatement outside rolling mill building



Photograph No.: 27 Direction: Northwest

Subject: Laboratory building demolition

Date: 9/11/09

Date: 9/11/09

Photographer: Trenna Seilheimer

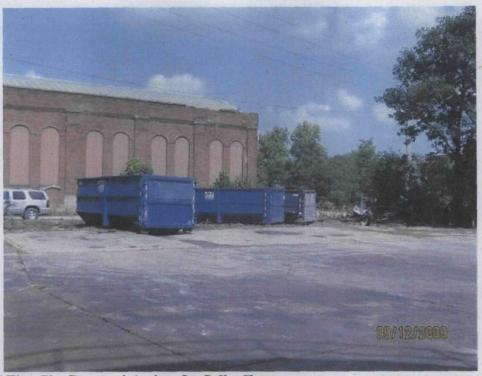


Site: M&H Zinc Site Removal Action, La Salle, IL

Photograph No.: 28

Direction: South Photographer: Trenna Seilheimer

Subject: Scrap metal left on site by ERRS after laboratory building demolition



Photograph No.: 29 Direction: Northeast

Subject: Completed laboratory building dismantlement

Date: 9/12/09

Photographer: Trenna Seilheimer



Site: M&H Zinc Site Removal Action, La Salle, IL

Photograph No.: 30

Direction: East

Subject: Completed laboratory building dismantlement

Date: 9/12/09



Photograph No.: 31

Direction: North Photographer: Trenna Seilheimer

Subject: Asbestos pipe wrap/insulation abatement completed outside Rolling mill building



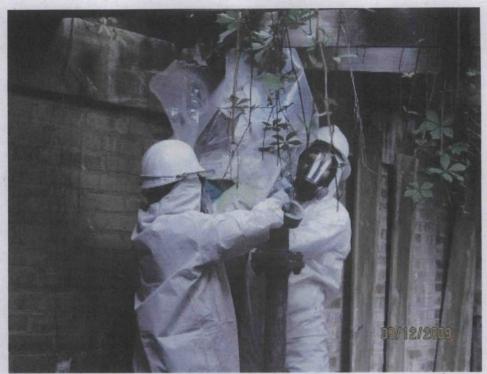
Site: M&H Zinc Site Removal Action, La Salle, IL

Photograph No.: 32 Direction: North

Subject: Asbestos pipe wrap/insulation abatement

Date: 9/12/09

Date: 9/12/09



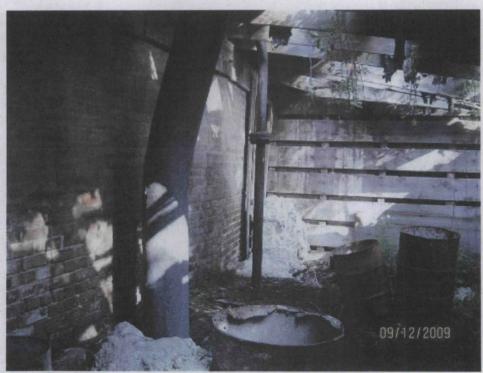
Photograph No.: 33 Direction: Northwest

Subject: Asbestos pipe wrap/insulation abatement

Date: 9/12/09

Date: 9/12/09

Photographer: Trenna Seilheimer



Site: M&H Zinc Site Removal Action, La Salle, IL

Photograph No.: 34

Direction: Northwest Photographer: Trenna Seilheimer

Subject: Completed asbestos pipe wrap/insulation abatement



Photograph No.: 35 Date: 9/12/09

Direction: Southwest Photographer: Trenna Seilheimer

Subject: Asbestos pipe wrap/insulation abatement outside Rolling mill building



Site: M&H Zinc Site Removal Action, La Salle, IL

Photograph No.: 36 Date: 9/12/09

Direction: Southwest Photographer: Trenna Seilheimer

Subject: Completed asbestos pipe wrap/insulation abatement



Photograph No.: 37 Date: 9/12/09

Direction: Northwest Photographer: Trenna Seilheimer

Subject: Asbestos pipe wrap/insulation abatement outside rolling mill building

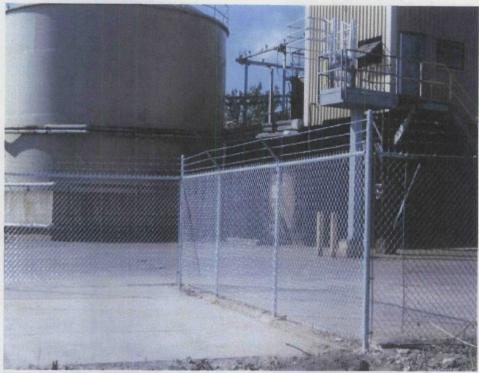


Site: M&H Zinc Site Removal Action, La Salle, IL

Photograph No.: 38 Date: 9/12/09

Direction: Northwest Photographer: Trenna Seilheimer

Subject: Completed asbestos pipe wrap/insulation abatement



Photograph No.: 39 Date: 9/18/09

Direction: North Photographer: Theresa Holz

Subject: New fence in place of demolished laboratory building



Site: M&H Zinc Site Removal Action, La Salle, IL

Photograph No.: 40

Direction: Northwest Photographer: Theresa Holz

Subject: New fence in place of demolished laboratory building

Date: 9/18/09

ATTACHMENT E

ANALYTICAL RESULTS FOR PERIMETER AND PERSONAL AIR SAMPLING

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
AIHA Accreditation # 101160



PHASE CONTRAST MICROSCOPY

Method: NIOSH 7400, Fourth Edition 8/15/94

Weston Solutions, Inc.
20 N Wacker Drive Suite 1210
Chicago, IL 606062901
(312) 424-3300
(312) 424-3330

Reference:

20405.016.001.0739.00

Date Received: 09/10/2009

Location:

M+H Zinc Fund Lead RV LaSalle, IL

Date Analyzed: 09/10/2009

Batch No.:

285710

Date Reported: 09/10/2009

Customer No.:

1324

Turn Around Time: 24 Hour

Laboratory Sample	Customer Sample	Volume	Fibers	Number of	Calculate	d Result	Reported
Number	Number	(L)		Fields	F/cc	F/mm²	Result
285710001	MH-ACM-1-090909	1646	3	100	0.0009	3.8	< 0.0016 F/cc
285710002	MH-ACM-2-090909	1668	5	100	0.0015	6.4	< 0.0016 F/cc
285710003	MH-ACM-3-090909	1583	7	100	0.0022	8.9	0.0022 F/cc
285710004	MH-ACM-4-090909	1227	4	100	0.0016	5. 1	< 0.0022 F/cc
285710005	MB-ACM-090909	0	0	100		< 7	< 7 F/mm ²
285710006	ER-Personal-Maria	300	5	100	0.0082	6.4	< 0.009 F/cc

STAT Analysis Laboratory Sr Values:

5-20 fibers/100 fields: 0.2244

>50-100 fibers/100 fields: 0 1227

>20-50 fibers/100 fields: 0.1757

>100 fibers/100 fields: 0 2322

LOD = 7 tibers imm² or 0.0027 tibers/cc for 1000 Litre sample volume.

All results are field blank corrected, when applicable.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

Signature:

Adalberto Rios / Microscopist

Page 1 of 1

Date: 09/10/2009

STAT Analysis Corporation: 2242 W. Harrison Suite 200, Chicago, Illinois 60612

2242 W. Harrison Suite 200, Chicago, Illinois 60612
Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com



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STAT Analysis Coporation

PCM Daily Microscope Check Logbook

93-0002

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Reviewed by/ Date:_____

PCM PREPARATION LOGBOOK

Logbook #: 92-0004

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Reviewed by :_____



2242 West Harrison St., Suite 200, Chicago, IL 60612-3766 Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com



ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA-600/M4-82-020

Weston Solutions, Inc. 20 N Wacker Drive Suite 1210

> Chicago, IL 606062901 Phone: (312) 424-3300 Fax: (312) 424-3330

Reference:

20405.016.001.0739.00

Date Received: 09/10/2009

Location:

M+H Zinc Fund Lead RV LaSalle, IL

Date Analyzed: 09/10/2009

Batch No.:

285711

Date Reported: 09/10/2009

Customer No.:

1324

Turn Around Time: 24 Hour

Laboratory

Customer Sample

Asbestos Components

Non-Asbestos Components

Sample

Number

(%)

(%)

285711001

ER-Chemical Storage Shed

ND

Binder 99-100%

ND = Asbestos Not Detected (Not Present)

NA = Not Analyzed

NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

Analyzed by Name:

Henry Robateau / Microscopist

Date: 09/10/2009

Page 1 of 1

STAT ANALYSIS CORPORATION

PLM Analysis Logbook Henry

Logbook 135-0066

Stat Batch	Date	Stereo	asbestos	morpho	logy of n	naterial		Polariz	ed micro	scopy of	fibrous ma	iterial		Analytic	al Results
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Analysis Corporation
2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386 e-mail address: STATinfoa STAT analysis.com AIHA, NVLAP and NELAP accredited

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Received by (Signature)			Date					1					- 503							Temperature:	°C

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766 Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com AIHA Accreditation # 101160



PHASE CONTRAST MICROSCOPY

Method: NIOSH 7400, Fourth Edition 8/15/94

Weston Solutions, Inc. 20 N Wacker Drive Suite 1210 Chicago, IL 606062901 (312) 424-3300 (312) 424-3330

Reference:

20405.016.001.0739.00

Date Received: 09/11/2009

Location:

M+H Zinc Fund Lead RV LaSalle, IL

Date Analyzed: 09/11/2009

Batch No .:

285730

Date Reported: 09/11/2009

Customer No.:

1324

Turn Around Time: 24 Hour

Laboratory Sample	Customer Sample	Volume	Fibers	Number of	Calculate	ed Result	Reported
Number	Number	(L)		Fields	F/cc	F/mm ²	Result
285730001	MH-ACM-1-091009	1666.4	6	100	0.0018	7.6	0.0018 F/cc
285730002	MH-ACM-2-091009	1576.2	3	100	0.0009	3.8	< 0.0017 F/cc
285730003	MH-ACM-3-091009	1239.7	6	100	0.0024	7.6	0.0024 F/cc
285730004	MH-ACM-4-091009	1594.1	8	100	0.0025	10.2	0.0025 F/cc
285730005	MB-ACM-091009	0	0	100		< 7	< 7 F/mm²
285730006	ER-Personal-Mike	574	7	100	0.0060	8.9	0.0060 F/cc
285730007	ER-Personal-Maria	1080	31	100	0.0141	39.5	0.0141 F/cc
285730008	ER-Personal-Jeff	870	10	100	0.0056	12.7	0.0056 F/ce

STAT Analysis Laboratory Sr Values:

5-20 fibers/100 fields: 0.2244

>50-100 fibers/100 fields: 0.1227

>20-50 fibers/100 fields: 0.1757

>100 fibers/100 fields: 0.2322

LOD = 7 fibers/mm² or 0 0027 fibers/cc for 1000 Litre sample volume.

All results are field blank corrected, when applicable.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced. except in its entirety: unless written approval has been obtained from the laboratory.

Signature:

Adalberto Rios / Microscopist

Page 1 of 1

Date: 09/11/2009

Analysis Corporation
2242 W. Harrison, Suite 200, Chrongo, Illinois 100612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-rmail address: STATinfo a STAT analysis.com AIHA, NVLAP and NELAP accredited

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PCM PREPARATION LOGBOOK

Logbook #: 92-0004

Analyst	Client	COC#	Prep. Date	Due Date	TAT (hrs.)	Number of Samples	Comments
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Reviewed by :_____

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PCM Daily Microscope Check Logbook

93-0002

Analyte	Date	Phase Rings Concentric	HSE/NPL	Resolution Grooverd lines 3-7	Stage Micrometer Check (Gratucule)	PCM Reference Slide	Compliant (Y/N)	10% Recount Data	#202	Sample #	1st Read	2nd read		Comment
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Reviewed by/ Date:_____

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
AIHA Accreditation # 101160



PHASE CONTRAST MICROSCOPY

Method: NIOSH 7400, Fourth Edition 8/15/94

Weston Solutions, Inc.
20 N Wacker Drive Suite 1210
Chicago, IL 606062901
(312) 424-3300
(312) 424-3330

Reference:

20405.016.001.0739.00

Date Received: 09/14/2009

Location:

M+H Zinc Fund Lead RV LaSalle, IL

Date Analyzed: 09/15/2009 Date Reported: 09/15/2009

Batch No.: Customer No.: 285762 1324

Turn Around Time: 24 Hour

Laboratory Sample	Customer Sample	Volume	Fibers	Number of	Calculate	d Result	Reported
Number	Number	(L)		Fields	F/cc	F/mm²	Result
285762001	MH-ACM-1-091209	1577.1	4	100	0.0012	5.1	< 0.0017 F/cc
285762002	MH-ACM-2-091209	1407.7	6	100	0.0021	7.6	0.0021 F/cc
285762003	MH-ACM-3-091209	808.5	6	100	0.0036	7.6	0.0036 F/cc
285762004	MH-ACM-4-091209	847.6	3	100	0.0017	3.8	< 0.0032 F/cc
285762005	MB-ACM-91209	0	0	100		< 7	< 7 F/mm ²
285762006	ER-Personal-Maria	750	10	100	0.0065	12.7	0.0065 F/cc

STAT Analysis Laboratory Sr Values:

5-20 fibers/100 fields: 0.2244

>50-100 fibers/100 fields: 0.1227

>20-50 fibers/100 fields: 0.1757

>100 fibers/100 fields: 0.2322

LOD = 7 fibers/mm² or 0.0027 fibers/cc for 1000 Litre sample volume.

All results are field blank corrected, when applicable.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

Signature:

Adalberto Rios / Microscopist

Date: 09/15/2009

Page 1 of 1

STAT Analysis Corporation

2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386

e-mail address: STATinfora.STATAnalysis.com AlHA accredited 101160 NVLAP lab code 101202-0

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STAT Analysis Corporation:



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Analyte	Date	Phase Rings Concentric	HSE/NPL	Resolution Grooverd lines 3-7	Stage Micrometer Check (Gratucule)	PCM Reference Slide	Compliant (Y/N)	10% Recount Data	# 202	Sample #	1st Read	2nd read	Compliant P/F	Comment
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									285642	6	13	15	7	
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Reviewed by/ Date:_____

PCM PREPARATION LOGBOOK

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Analyst	Client	COC#	Prep. Date	Due Date	TAT (hrs.)	Samples	Comments
_/h	EHC	1-35075	9/0109	9/1109	72	<u> </u>	
	bueston	7.37110	41,0104	9/11/05	24	4	
	No	215115	1/10/07	9/11/09	2.4	2_	
AL	Westow	255730	9/11/05	9/14/09	2-1	4	
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Reviewed by :_____

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

September 15, 2009

Weston Solutions 20 North Wacker Drive Suite 1210

Chicago, IL 60606

Telephone: (312) 424-3339 Fax: (312) 424-3330

RE: 20405.016.001.0739.00, M&H Zinc Fund Lead RV

STAT Project No: 09090350

Dear Lisa Graczyk:

STAT Analysis received 3 samples for the referenced project on 9/14/2009 10:00:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met AIHA, EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. Sample acceptance criteria has been met unless noted in the Case Narrative or Sample Receipt Checklist. If required, an estimate of uncertainty for the analyses can be provided. Sample results have not been corrected for contamination based on field blank or other analytical blank, unless noted in the case narrative.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely, Leatin Alannin

Catia Giannini

Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported:

September 15, 2009

Date Printed:

September 15, 2009

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Weston Solutions

Project:

20405.016.001.0739.00, M&H Zinc Fund Lead RV

Lab Order: 09090350

Lab ID:

09090350-001

Collection Date: 9/11/2009 4:57:00 PM

Client Sample ID: MH-PM-3-091109

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	N7300			Prep	Date: 9/14/2	2009 Analyst: JG
Arsenic	ND	0.83		μg/m³	10	9/14/2009
Cadmium	ND	0.83		µg/m³	10	9/14/2009
Lead	ND	0.83		μg/m³	10	9/14/2009
Zinc	ND	0.83		μg/m³	10	9/14/2009
Particulates in Air	NIOSHO	500		Prep	Date: 9/14/2	2009 Analyst: RV
Particulates in Air	ND	0.17	*	mg/m³	1	9/14/2009

Lab ID:

09090350-002

Client Sample ID: MH-PM-4-091109

Collection Date: 9/11/2009 4:53:00 PM

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	N7300			Prep	Date: 9/14/2	009 Analyst: JG
Arsenic	ND	0.82		µg/m³	10	9/14/2009
Cadmium	ND	0.82		µg/m³	10	9/14/2009
Lead	ND	0.82		µg/m³	10	9/14/2009
Zinc	ND	0.82		μg/m³	10	9/14/2009
Particulates in Air	NIOSH	0500		Prep	Date: 9/14/2	009 Analyst: RW
Particulates in Air	ND	0.16	*	mg/m³	1	9/14/2009

Lab ID:

09090350-003

Client Sample ID: MB-PM-091109

Collection Date: 9/11/2009 5:00:00 PM

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	N7300			Prep	Date: 9/14/200	9 Analyst: JG
Arsenic	ND	1		μg/filter	10	9/14/2009
Cadmium	ND	1		μg/filter	10	9/14/2009
Lead	ND	1		μg/filter	10	9/14/2009
Zinc	ND	1		µg/filter	10	9/14/2009
Particulates in Air	NIOSH	0500		Prep	Date: 9/14/200	9 Analyst: RW
Particulates in Air	ND	0.2	*	mg/filter	1	9/14/2009

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766 Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com AIHA Accreditation # 101160



PHASE CONTRAST MICROSCOPY

Method: NIOSH 7400, Fourth Edition 8/15/94

Weston Solutions, Inc. 20 N Wacker Drive Suite 1210 Chicago, IL 606062901 (312) 424-3300 (312) 424-3330

Reference:

20405.016.001.0739.00

Date Received: 09/14/2009

Location:

M+H Zinc Fund Lead RV LaSalle, IL

Date Analyzed: 09/14/2009

Batch No.:

285748

Date Reported: 09/14/2009

Customer No.:

1324

Turn Around Time: 24 Hour

Laboratory Sample	Customer Sample	Volume	Fibers	Number of	Calculate		Reported
Number	Number	(L)		Fields	F/ee	F/mm ²	Result
285748001	MH-ACM-1-091109	1430.9	7	100	0.0024	8.9	0.0024 F/cc
285748002	MH-ACM-2-091109	1933.8	10	100	0.0025	12.7	0.0025 F/cc
285748003	MH-ACM-3-091109	1209.1	4	100	0.0016	5.1	< 0.0022 F/cc
285748004	MH-ACM-4-091109	1214.9	5	100	0.0020	6.4	< 0.0022 F/cc
285748005	MB-ACM-091109	0	0	100		< 7	< 7 F/mm²
285748006	ER-Personal-Maria	1080	100	39	0.1164	326.6	0.1164 F/cc
285748007	ER-Personal-Jeff	1125	19	100	0.0083	24.2	0.0083 F/cc
285748008	ER-Personal-Mike	900	11	100	0.0060	14.0	0.0060 F/cc

STAT Analysis Laboratory Sr Values:

5-20 fibers/100 fields: 0.2244

>50-100 fibers/100 fields: 0.1227

>20-50 fibers/100 fields: 0,1757

>100 fibers/100 fields: 0.2322

LOD = 7 fibers/mm² or 0.0027 fibers/ec for 1000 Litre sample volume.

All results are field blank corrected, when applicable.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

Signature:

Adalberto Rios / Microscopist

Page 3 of 10

Date: 09/14/2009

STAT Analysis Corporation
2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phones (312) 733-0551 Fax: (312) 733-2386 e-mail address; STATinfoca STAT analysis.com AIHA, NVLAP and NELAP accredited

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Project Name: M+H Zinc Fund								Que	ote N	0.:					/,	21r	\47Z	"/	//		
Project Location: La Salle, IL]						99,11	/×/	%;y	//	//	//		
Sampler(s): T. Seilheimer, M. H	nnt / ER	1											/v	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	"	//	//	//		
Report To: Lisa Graczyk		Phone:	312-	424	- 33	39						k			"	//	//	//	//		Furn Around
Tranna Seilheimer		Fax:	312-	424	- 53	30		}			\ \		9/	35/	/,	//	//	//	//		24 HR
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ER- Person - Jeff	1 1	 	1	1			,	X				寸		_	十	1	+	†	1	1/25 L	
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STAT Analysis Corporation

PREP BATCH REPORT

Prep Start Date: 9/15/2009 10:20:00 Prep End Date: 9/15/2009 10:40:00

Prep Factor Units:

Prep Batch 4450	7 Prep C	ode: M_AI	R_PR Te	chnician: PN	mL /								
Sample ID	Matrix	рН	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd				
IRBA1 9/14/09			1	0	0	0.01	0.010	9/14/2009	9/14/2009				
IMBA1 9/14/09			1	0	0	0.01	0.010	9/14/2009	9/14/2009				
ILCSA1 9/14/09	·		1	0	0	0.01	0.010	9/14/2009	9/14/2009				
ILCSDA1 9/14/09			1	00	0	0.01	0.010	9/14/2009	9/14/2009				
09090350-001A	Air		1.209	0	0	0.01	0.008	9/14/2009	9/14/2009				
09090350-002A	Air		1.215	00	0	0.01	0.008	9/14/2009	9/14/2009				
09090350-003A	Air		1	0	0	0.01	0.010	9/14/2009	9/14/2009				
09090376-001A	Air		0.808	0	0	0.01	0.012	9/15/2009	9/15/2009				
09090376-002A	Air		0.848	0	0	0.01	0.012	9/15/2009	9/15/2009				
09090376-003A	Air		1	0	0	0.01	0.010	9/15/2009	9/15/2009				

Weston Solutions

Work Order: 09090350

Project: 20405.016.001.0739.00, M&H Zinc Fund Lead RV

ANALYTICAL QC SUMMARY REPORT

BatchID: 44507

Sample ID	IRBA1 9/14/09	SampType:	MBLK	TestCod	e: M_AIR	Units: µg		Prep Date:	9/14/20	09	Run ID: IC	PMS-2_0909	914A
Client ID:	ZZZZZ	Batch ID:	44507	TestN	o; N7300			Analysis Date:	9/14/20	09	SeqNo: 14	94301	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	ighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic			ND	1.0									
Cadmium			ND	1.0									
Lead			ND	1.0									
Zinc			ND	1.0									
Sample ID	IMBA1 9/14/09	SampType:	MBLK	TestCod	e: M_AIR	Units: µg/filter		Prep Date:	9/14/20	09	Run ID: IC	PMS-2_0909	14A
Client ID:	ZZZZZ	Batch ID:	44507	TestN	o: N7300			Analysis Date:	9/14/20	09	SeqNo: 14	94302	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	ighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic			ND	1.0									
Cadmium			ND	1.0									
Lead			ND	1.0									
Zinc			0.445	1.0									J
Sample ID	ILCSA1 9/14/09	SampType:	LCS	TestCod	le: M_AIR	Units: µg/filter		Prep Date:	9/14/20	09	Run ID: IC	PMS-2_0909	14A
Client ID:	ZZZZZ	Batch ID:	44507	TestN	o: N7300			Analysis Date:	9/14/20	09	SeqNo: 14	94386	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	ighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
A ====!=			4 774	1.0	5	_			400	0			
Arsenic			4.771	1.0	J	0	95.4	80	120	U	0		
Cadmium			4.771 4.839	1.0	5	0	95.4 96.8	80 80	120 120	0	0		
					-					_	=		
Cadmium			4.839	1.0	5	0	96.8	80	120	0	0		
Cadmium Lead Zinc	ILCSDA1 9/14/09	SampType	4.839 4.776 5.243	1.0 1.0 1.0	5	0	96.8 95.5 96	80 80	120 120	0 0	0 0	PMS-2_0909)14A
Cadmium Lead Zinc	ILCSDA1 9/14/09 ZZZZZ	SampType: Batch ID:	4.839 4.776 5.243	1.0 1.0 1.0	5 5 5	0 0 0.445	96.8 95.5 96	80 80 80	120 120 120 120 9/14/20	0 0 0	0 0		 114A
Cadmium Lead Zinc			4.839 4.776 5.243	1.0 1.0 1.0	5 5 5 e: M_AIR	0 0 0.445 Units: µg/filter	96.8 95.5 96	80 80 80 Prep Date:	120 120 120 120 9/14/20	0 0 0 0 09	0 0 0 Run ID: IC		014A Qual
Cadmium Lead Zinc Sample ID Client ID:			4.839 4.776 5.243 LCSD 44507	1.0 1.0 1.0 TestCoc TestN	5 5 5 de: M_AIR o: N7300	0 0 0.445 Units: µg/filter	96.8 95.5 96	80 80 80 Prep Date: Analysis Date:	120 120 120 120 9/14/20	0 0 0 0 09	0 0 0 Run ID: IC SeqNo: 14	94382	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Weston Solutions

Work Order:

09090350

Project:

20405.016.001.0739.00, M&H Zinc Fund Lead RV

ANALYTICAL QC SUMMARY REPORT

BatchID: 44507

Sample ID ILCSDA1 9/14/09 Client ID: ZZZZZ	SampType: LCSD Batch ID: 44507		de: M_AIR lo: N7300	Units: µg/filte		Prep Dat Analysis Da	te: 9/14/20 te: 9/14/20		Run ID: ICPMS-2_090914A SeqNo: 1494382				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit (Qual		
Lead	4.516	1.0	5	0	90.3	80	120	4.776	5.60	20			
Zinc	4.858	1.0	5	0.445	88.3	80	120	5.243	7.62	20			

STAT Analysis Corporation:
2242 W. Harrison Suite 200, Chicago, Illinois 60612
Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com



PCM	ASBESTO	S ANALYSIS CO	OUNT SHE	ET	Page:	of
TURN-A	ROUND TIME (Hou	ırs): 4	4-8	12	24 48	72
Date Du		Time Due:		Or	fice Use Only:	
Client: Street:	i	C'ESTON		No.: 255)		
City, State Phone: Fax:	e, Zip:		Samp	Client No. les Accepta ments:		No
Project N Project N Project Le	umber:		Analyze	ed By:	Zn Date∕Ti	me: <u>41810</u> 9
Project M			QC By:			me: 9/14/09
	Laboratory	Client	Fibers/	Fibers	Comments	
	Sample Number	Sample Number	Fields	per mm ²		
	2037-18001		7/100			
	ool		101,00			
	003		4/100			
	004		51,00			
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Client Co	ntact Information;			Office U	se Only:	
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Fax (1): Fax (2):	Faxed F	Final Reports				

PCM PREPARATION LOGBOOK

Analyst	Client	COC#	Prep. Date	Due Date	TAT (hrs.)	Number of Samples	Comments
AL	EHC	255678	9/5/07	9/11/09	72	2_	
AL.	weston	240710	9/10/09	9/11/05	24	6	
th	115	255715	7/10/07	9/11/09	24	2	
AL	WESTON	255730	9/11/09	9/14/09	24	4	`
An	WESTON	255744	9/14/09	4/15/09	24	4	
					 		
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Reviewed by :_____

Analyte Analyte Date Concentric Grooverd lines 3-7 Compliant (Y/N) Compliant (Y/N) Sample # 1st Read		Comment
	2 P	
	3 P	
110 6/31/07 / 4 100 1/7 7 735513 5 6	9	
11 9/109 V 4 100 3/39 7 2456/8 2 53 0	63 12	
	2 1	
An 19/3/09 V 4 100 120 3 235646 1 17	12. P	
L15651 7 O	$C \qquad P$	
	15 P	
258643 3 7	4 2	
A 914107 V 4 100 44 4 Ref Shill 2 21	3 P	
1 9/4/07 V 4 10: 74 4 Ref Shote 2 21	33 P	
1 9/8/09 4 100 4/429 4 235617 1 2 1 19/9/09 4 100 3/86 4 Ref Slide 3 46	م	
1 7/9/09 V 4 100 3/86 Y Ref Slide 3 66	96 3	'
An 9/10/09 / 4 100 1/13 4 2:5710 3 7 1/1 9/1109 / 4 100 4/34 7 25575: 7 31	5 ?	
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1/ 9/14/09 - 4 100 3/97 × 205748 6 250 2	275	
		
		
		

Reviewed	by/	Date:	 	

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

September 15, 2009

Weston Solutions 20 North Wacker Drive Suite 1210

Chicago, IL 60606 Telephone: (312) 424-3339

Fax: (312) 424-3330

RE: 20405.016.001.0739.00, M&H Zinc Fund Lead RV STAT Project No: 09090376

Dear Lisa Graczyk:

STAT Analysis received 3 samples for the referenced project on 9/14/2009 4:15:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met AIHA, EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. Sample acceptance criteria has been met unless noted in the Case Narrative or Sample Receipt Checklist. If required, an estimate of uncertainty for the analyses can be provided. Sample results have not been corrected for contamination based on field blank or other analytical blank, unless noted in the case narrative.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely, Gatial Alany

Catia Giannini

Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported:

September 15, 2009

Date Printed:

September 15, 2009

Client:

Weston Solutions

Project:

20405.016.001.0739.00, M&H Zinc Fund Lead RV

Lab Order: 09090376

Lab ID:

09090376-001

Collection Date: 9/12/2009 1:13:00 PM

Matrix: Air

Client Sample ID: MH-PM-3-091209

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	N7300			Prep	Date: 9/15/200	9 Analyst: JG
Arsenic	ND	1.2		µg/m³	10	9/15/2009
Cadmium	ND	1.2		µg/m³	10	9/15/2009
Lead	ND	1.2		µg/m³	10	9/15/2009
Zinc	ND	1.2		µg/m³	10	9/15/2009
Particulates in Air	NIOSHO	500		· Prep	Date: 9/14/200	9 Analyst: RW
Particulates in Air	ND	0.25	*	mg/m³	1	9/14/2009

Lab ID:

09090376-002

Client Sample ID: MH-PM-4-091209

Collection Date: 9/12/2009 1:18:00 PM

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF 	Date Analyzed
Metals in Air	N7300	}		Prep	Date: 9/15/20	09 Analyst: JG
Arsenic	ND	1.2		µg/m³	10	9/15/2009
Cadmium	ND	1.2		µg/m³	10	9/15/2009
Lead	ND	1.2		μg/m³	10	9/15/2009
Zinc	ND .	1.2		µg/m³	10	9/15/2009
Particulates in Air	NIOSI	10500		Prep	Date: 9/14/20	09 Analyst: RW
Particulates in Air	ND	0.24	*	mg/m³	1	9/14/2009

Lab ID:

09090376-003

Client Sample ID: MB-PM-091209

Collection Date: 9/12/2009 1:00:00 PM

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	N7300			Prep	Date: 9/15/200	Analyst: JG
Arsenic	ND	1		μg/filter	10	9/15/2009
Cadmium	ND	1		μg/filter	10	9/15/2009
Lead	ND	1		μg/filter	10	9/15/2009
Zinc	ND	1		µg/filter	10	9/15/2009
Particulates in Air	NIOSH)500		Prep	Date: 9/14/200	Analyst: RW
Particulates in Air	ND	0.2	*	mg/filter	1	9/14/2009

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

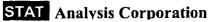
RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded



2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
AIHA Accreditation # 101160



PHASE CONTRAST MICROSCOPY

Method: NIOSH 7400, Fourth Edition 8/15/94

Weston Solutions, Inc.
20 N Wacker Drive Suite 1210
Chicago, IL 606062901
(312) 424-3300
(312) 424-3330

Reference:

20405.016.001.0739.00

Date Received: 09/14/2009

Location:

285762005

M+H Zinc Fund Lead RV LaSalle, IL

0

750

Date Analyzed: 09/15/2009

 $< 7 \text{ F/mm}^2$

0.0065 F/cc

Batch No.: Customer No.: 285762 1324

MB-ACM-91209

285762006 ER-Personal-Maria

Date Reported: 09/15/2009 Turn Around Time: 24 Hour

< 7

12.7

Laboratory Customer Calculated Result Volume Sample Sample Fibers Number of Reported (L) Number Number Result Fields F/cc F/mm² 285762001 MH-ACM-1-091209 1577.1 4 100 0.0012 5.1 < 0.0017 F/cc285762002 MH-ACM-2-091209 1407.7 100 0.0021 7.6 0.0021 F/cc 6 285762003 MH-ACM-3-091209 808.5 7.6 0.0036 F/cc 6 100 0.0036 285762004 MH-ACM-4-091209 847.6 3 100 0.0017 3.8 < 0.0032 F/cc

100

100

0

10

STAT Analysis Laboratory Sr Values:

5-20 fibers/100 fields: 0.2244

>50-100 fibers/100 fields: 0.1227

>20-50 fibers/100 fields: 0.1757

>100 fibers/100 fields: 0.2322

LOD = 7 fibers/mm² or 0.0027 fibers/cc for 1000 Litre sample volume.

All results are field blank corrected, when applicable.

0.0065

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

Signature:

Adalberto Rios / Microscopist

Date: 09/15/2009

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	ARIULIUIO	Corporation

2242 W. Harrison, Suite 200, Chrcago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386 e-mail address: STATinfo;a.STATAnaly.sis.com AlHA accredited 101160 NVLAP lab code 101202-0

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Street Address:	20 N Wacker	Dr. Ste	1210		Date E	oue .		Time Due			Note:	No	t all tur	n arou	ınd ti	mes a	ire av	ailat	ole fo	r all a	analysí	s.	ł
City, State, Zip:	Chicago, 1L	60606				OFFICE	USE ONLY	BELOW:	Relinquished by 1/2 and was solding 9/12/29 1:450.								150.						
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Fax:	312-424-33	30			$I \subset$	17) YC.	3/6	Rel	inqu	shed	by		17/	cic	<u>۔ ۔ ,</u>		Date,	Time	9/4	1191	14.5	7
e-mail/Alt. Fax:	See comme	ents			Sampl	es Acceptat	ole Yes:	No:	Rec	eive	d by:	-		1				Date	Time	9/	14/0	E/Z	115
Project Number:	20405.016.00	1.0739.0	20		Check	ed by (Initia	Il Date):		Rel	inqu	shed	by:	:					Date/	Time	:			
Project Name:	M+H zinc	Fund Lea	ad RI)	QC by	(Initial Date	e).		Rec	eive	d by:							Date/	/Time	્રફ્			
Project Location:	Lasalle, 16				Report	led By (Initi	al Date/Time/M	ethod)		lk)		2	Asb	l eg					म्	\$ 3			
Project Manager:	Lisa Gracz	yk			.				so)s (B	ount	Sesto	sbest	ac A				§	Ş	\$ 3	ł		1
P.O. Number:	·				Comin				Spest	sbest	int	r Ast	avim A	icrov	atcı		ŀ	\$5	go.	2 2			
Client Sample Nu	mber/Description:	Date Taken	Ti		Rate	Volume	Area	Laboratory	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	TEM Air Asbestos	TEM Bulk Asbestos TEM Gravimetric Asb	TEM Microvac Asb.	TEM Water		넕	ASBLATON NIOSH 74	3 3	2 2			
	•		On	Off	(lpm)	(Liters)	Wiped (ft²)	Sample No.	PC	P.	리	E		<u> </u>	12		Opper	<u> ४ ४</u>	€3	33			
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MH-ACM-2	-091209			1330		1407.7								<u> </u>				×				\perp	
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trenna. seilheimer @ weston solutions.com

STAT Analysis Corporation

PREP BATCH REPORT

Prep Start Date: 9/15/2009 10:20:00 Prep End Date: 9/15/2009 10:40:00

Prep Factor Units:

m	L	1
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Prep Batch 4450	7 Prep C	ode: M_AIR_P	R Ted	chnician: PN	mL /						
Sample ID	Matrix	pH S	ampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd		
IRBA1 9/14/09			1	0	0	0.01	0.010	9/14/2009	9/14/2009		
IMBA1 9/14/09			1	0	0	0.01	0.010	9/14/2009	9/14/2009		
ILCSA1 9/14/09			111	0	0	0.01	0.010	9/14/2009	9/14/2009		
ILCSDA1 9/14/09			1	0	0	0.01	0.010	9/14/2009	9/14/2009		
09090350-001A	Air		1.209	0	0	0.01	0.008	9/14/2009	9/14/2009		
09090350-002A	Air		1.215	0	0	0.01	0.008	9/14/2009	9/14/2009		
09090350-003A	Air		11	0	0	0.01	0.010	9/14/2009	9/14/2009		
09090376-001A	Air		0.808_	0	0	0.01	0.012	9/15/2009	9/15/2009		
09090376-002A	Air		0.848	0	0	0.01	0.012	9/15/2009	9/15/2009		
09090376-003A	Air_		1_	0	0	0.01	0.010	9/15/2009	9/15/2009		

Project:

Weston Solutions

Work Order: 09090376

20405.016.001.0739.00, M&H Zinc Fund Lead RV

ANALYTICAL QC SUMMARY REPORT

BatchID: 44507

													====
Sample ID	IRBA1 9/14/09	SampType:	MBLK	TestCode	e: M_AIR	Units: µg		Prep Date	9/14/20	009	Run ID: ICI	PMS-2_0909	14A
Client ID:	ZZZZZ	Batch ID:	44507	TestNo	o: N7300			Analysis Dat	e: 9/14/2 0	009	SeqNo: 14	94301	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic			ND	1.0									
Cadmium			ND	1.0						•			
Lead			ND	1.0									
Zinc			ND	1.0				·					
Sample ID	IMBA1 9/14/09	SampType:	MBLK	TestCod	e: M_AIR	Units: µg/f	ilter	Prep Date	e: 9/14/2 0	009	Run ID: ICI	PMS-2_0909)14A
Client ID:	ZZZZZ	Batch ID:	44507	TestNo	o: N730.0			Analysis Dat	e: 9/14/2 0	009	SeqNo: 14	94302	
Analyte		·	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic			ND	1.0									
Cadmium			ND	1.0									
Lead			ND	1.0									
Zinc			0.445	1.0									J
Sample ID	ILCSA1 9/14/09	SampType:	LCS	TestCod	e: M_AIR	Units: µg/f	ilter	Prep Date	e: 9/14/2	009	Run ID: ICI	PMS-2_0909)14A
Client ID:	ZZZZZ	Batch ID:	44507	TestN	o: N7300			Analysis Dat	e: 9/14/2	009	SeqNo: 14	94386	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic			4.771	1.0	5	0	95.4	80	120	0	0		
Cadmium			4.839	1.0	5	0	96.8	80	120	0	0		
Lead			4.776	1.0	5	0	95.5	80	120	0	0		
Zinc			5.243	1.0	5	0.445	96	80	120	0	0		
Sample ID	ILCSDA1 9/14/09	SampType:	LCSD	TestCod	le: M_AIR	Units: µg/f	ilter	Prep Date	e: 9/14/20	009	Run ID: ICI	PMS-2_0909	14A
Client ID:	ZZZZZ	Batch ID:	44507	TestN	o: N7300			Analysis Dat	e: 9/14/2 0	009	SeqNo: 14	94382	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic			4.463	1.0	5	0	89.3	80	120	4.771	6.67	20	
Cadmium			4.6	1.0	5	0	92	80	120	4.839	5.06	20	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Weston Solutions

Work Order:

09090376

Project:

20405.016.001.0739.00, M&H Zinc Fund Lead RV

ANALYTICAL QC SUMMARY REPORT

BatchID: 44507

Sample ID ILCSDA1 9/14/09 Client ID: ZZZZZ	SampType: LCSD Batch ID: 44507		de: M_AIR do: N7300	Units: µg/filte		Prep Date: 9/14/2009 Analysis Date: 9/14/2009			Run ID: ICPMS-2_090914A SeqNo: 1494382		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit Qual	
Lead	4.516	1.0	5	0	90.3	80	120	4.776	5.60	20	
Zinc	4.858	1.0	5	0.445	88.3	80	120	5.243	7.62	20	

STAT Analysis Corporation: 2242 W. Harrison Suite 200, Chicago, Illinois 60612

2242 W. Harrison Suite 200, Chicago, Illinois 60612
Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com



PCM	ASBESTOS	ANALYSIS CO	UNT SHE	ET	Page:	of					
TURN-A	ROUND TIME (Hours	s): 4	4-8	12	24 48	72					
Date Due	e: Ti	me Due:		Of	fice Use Only:						
Client: Street:	WE	570N	coc	No.: 2857	62						
City, State	e, Zip:			STAT Client No.:							
Phone: Fax:			-	les Accepta nents:	ble: Yes X	No					
Project Na Project Na											
Project Lo			Analyze	d By:		e: 4/15/09					
Project M	anager:		QC By:	4	Date/Tim	9/1/					
	Laboratory	Client	Fibers/	Fibers	Comments	3					
	Sample Number	Sample Number	Fields	per mm ²							
	285162 601		4/100								
	2002		4/100								
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Comments	:										
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STAT Analysis Coporation

PCM Daily Microscope Check Logbook

93-0002

Analyte	Date	Phase Rings Concentric	HSE/NPL	Resolution Grooverd lines 3-7	Stage Micrometer Check (Gratucule)	PCM Reference Slide	Compliant (Y/N)	10% Recount Data	# 20 2	Sample #	1st Read	2nd read	_	Comment
10	3/27/03	<u>√</u>		મ	100	4/390	7		205005	2	2	-7	9	
	<u> </u>								Z-55:55	17	من	.3	72	
111	8/31/07		·/	ij	100	1/7	<u> </u>		755555 755513	.3	6	cl	13	
An	41.109	<u> </u>		<u> </u>	100	3/29	٢		245618	2	53	63	13	
40	9/1/07		U	7	160	1/20	76	L	275635	3	니	2	12	
1/1	9/3/69	<u> </u>	V	4	163	1720	لتا		235646	1	17	12	12	
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									285642	6	13	15	P	
									255643	3	:1	4	7	
									205652 Ref Shok	2	ル	3	15	
	9/4/07	<u> </u>		4	103	2/22	۲	 	RifSlick	2	21	33	12	
fl	9/8/09			4	100	4/424	۲.		275617 Refslide		2		P	
Sh	9/9/09	سما		Ч	10.0	31.86	4		Refslide	3	4560	96	(d	
An	9/10/09	V	V	4	100	1/13	4		2:5110	3	1	_ 5	7	
11	94409	V	~	٤-ا	100	434	٦		255950	1_7	31	43	3	
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Reviewed by/ Date:______

PCM PREPARATION LOGBOOK

Logbook #: 92-0004

Analyst	Client	COC#	Prep. Date	Due Date	TAT (hrs.)	Number of Samples	Comments
1/4	EHC	255675	9/6/29	9/11/09	72	7	
1/E	bueston	1.50110	41,0104	3/11/05	24	4	
+15	ME	135115	9/10/09	9/11/09	24	2_	
AL	Westow	235730	9/11/09	4/14/08	2~1	خن	
1	Lies tou	455.744	9/19/05	4/15/09	24	-\$	
11	1/contract	785756	9/14/01	9/14/05	1 MM	1	
th	Vérsitent	255757	9/14/05	9/14/09	مادرارز	2	
1h	Febr-Groben	255)67	7/15/04	9/15/09	14m	3	
ph.	hiesten	245767	9/15703	9/15/09	2.4	6	
							
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Reviewed by :_____